

## ABSTRACT

Thrombospondin-binding molecules and fragments comprising one or more regions of the TSP-1-binding domains of Histidine-Rich Glycoprotein (HRGP) are provided. Also provided are homologs of TSP-1-binding domains of Histidine-Rich Glycoprotein. Therapeutic methods of use of these thrombospondin-binding molecules and fragments, as well as anti-HRGP antibodies and antibody fragments are disclosed. These methods are useful in modulating a variety of physiological and pathological processes including angiogenesis, inflammatory responses, embryogenesis and tumor proliferation. A range of assay methods for diagnosis and for detection, quantitation and identification of modulators of the TSP-1-binding activity of HRGP are also provided. In addition screening assays for compounds that specifically modulate HRGP expression are provided. These assays are useful in a range of formats from individual assays to library screening as well as high throughput assays. Compounds identified by such methods are useful as therapeutic candidate molecules or as lead compounds in the development of therapeutic molecules.